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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/873.952	06/04/2001	Reinhard Zeisig	01070-032	3305	
23622	7590 03/26/2003				
	PROCTER L.L.P.		EXAMINER		
7 BECKER FARM ROAD ROSELAND, NJ 07068		KISH	KISHORE, GO	ORE, GOLLAMUDI S	
			ART UNIT	PAPER NUMBÉR	
			1615	U	
			DATE MAIL ED: 02/26/2002	"	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/873,952

Gollamudi Kishore

Applicant(s)

Examiner

Art Unit 1615

Zeisig

The MAILING DATE of this communication appears	on the cover sheet with the correspondence address			
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In				
mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the 1ft ND period for reply is specified above, the maximum statutory period will apply a Failure to reply within the set or extended period for reply will, by statute, cause the Any reply received by the Office later than three months after the mailing date of the earned patent term edjustment. See 37 CFR 1.704(b).	ne statutory minimum of thirty (30) days will be considered timely. Ind will expire SIX (8) MONTHS from the mailing date of this communication. The application to become ABANDONED (35 U.S.C. § 133).			
Status				
1) Responsive to communication(s) filed on				
2a) ☐ This action is FINAL . 2b) ☒ This act	ion is non-final.			
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposition of Claims				
4) 💢 Claim(s) 9-18	is/are pending in the application.			
4a) Of the above, claim(s)	is/are withdrawn from consideration.			
5) Claim(s)	is/are allowed.			
6) 💢 Claim(s) <i>9-18</i>	is/are rejected.			
7) Claim(s)	is/are objected to.			
8) Claims	are subject to restriction and/or election requirement.			
Application Papers				
9) The specification is objected to by the Examiner.				
10) The drawing(s) filed on is/are	a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the d	rawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examine			
If approved, corrected drawings are required in reply	to this Office action.			
12) \square The oath or declaration is objected to by the Exami	iner.			
Priority under 35 U.S.C. §§ 119 and 120				
13) 🗓 Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-(d) or (f).			
a) \square All b) \square Some* c) \square None of:				
 Certified copies of the priority documents have 	e been received.			
2. Certified copies of the priority documents hav	e been received in Application No			
 Copies of the certified copies of the priority description application from the International Bure *See the attached detailed Office action for a list of the 	au (PCT Rule 17.2(a)).			
	·			
 14) ☐ Acknowledgement is made of a claim for domestic a) ☐ The translation of the foreign language provisions 				
15)☐ Acknowledgement is made of a claim for domestic				
Attachment(s)	priority and do otaler as the unity of the ti			
X Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)			
3) X Information Disclosure Statement(s) (PTO-1449) Paper No(s), and 10	6) Cther:			

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DETAILED ACTION

The amendment dated 1-28-02 and the change of address dated 2-26-02 are acknowledged.

Claims included in the prosecution are 9-18.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 13, 17 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The chemical names of ICI 164,3384, ICI 182,780 should be recited in claim 13. Also unclear is what the 'main metabolite of tamoxiphen is. It should be identified since the claim also recites other tamoxiphen derivatives by name.

It is unclear whether the limitation in parenthesis is indeed the limitation as recited in claim 17.

The chemical name of OPP should be recited in claim 18.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 9-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over either WO 96/11670 in combination with Jalonen (5,571,534) by itself or in further combination with Grunicke (5,770,593).

WO 96 teaches liposomal formulations containing an antineoplastic ether lipid. The liposomes further contain a phospholipid, PEG derivatized lipid and an additional antineoplastic agent (note the abstract, page 8, lines 9-23; pages 10 and 12-15; Examples and claims). What is lacking in WO is the teaching of tamoxiphen as the additional antineoplastic agent.

Jalonen discloses that anti-estrogens are poorly soluble in water and in order to give effective amounts of these compounds in cancer therapy, they are encapsulated in liposomes. Jalonen teaches tamoxiphen and other anti-estrogens (note the abstract, col. 1, line 35 through col. 2, line 12; col. 3, line 49 et seq.).

Grunicke teaches synergistic combination therapy compositions containing tamoxiphen, ether phospholipid and other antineoplastic agents (note the abstract; col. 3, lines 16 through 61; claims).

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The use of tamoxiphen or other antiestrogens as the specific antineoplastic agent in the liposomal compositions containing the ether phospholipids and the encapsulated antineoplastic agent, with the expectation of obtaining at least an additive effect would have been obvious to one of ordinary skill in the art since Jalonen teaches liposomal encapsulation of tamoxiphen to achieve effective levels of these compounds in cancer therapy. One of ordinary skill in the art would be motivated to combine tamoxiphen with the liposomal compositions of WO since Grunicke teaches combination of ether lipids and tamoxiphen has a synergistic effect.

5. Claims 9-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over either DE 44 08 011 of record or DE 41 32 345 of record or Arndt (Breast Cancer Research and Treatment, 1997) of record in combination with Jalonen (5,571,534) cited above by itself or in further combination with Grunicke cited above.

DE 44 08 011, and DE 41 32 345 each teach liposomal compositions containing an antineoplastic alkyl phospholipid, PEG modified phospholipid and cholesterol (note the abstracts, Examples and claims of each). Similarly Arndt teaches a similar liposomal composition (note the abstract and entire publication).

What is lacking in these references is the teaching of the inclusion of an additional antineoplastic agent, tamoxiphen in the liposomal compositions.

As pointed out above, Jalonen discloses that anti-estrogens are poorly soluble in water and in order to give effective amounts of these compounds in cancer therapy, they

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are encapsulated in liposomes. Jalonen teaches tamoxiphen and other anti-estrogens (note the abstract, col. 1, line 35 through col. 2, line 12; col. 3, line 49 et seq.).

Grunicke teaches synergistic combination therapy compositions containing tamoxiphen, ether phospholipid and other antineoplastic agents (note the abstract; col. 3, lines 16 through 61; claims).

The use of tamoxiphen or other antiestrogens in the liposomal compositions containing the alkyl phospholipids of DE (011), DE (345), with the expectation of obtaining at least an additive effect would have been obvious to one of ordinary skill in the art since Jalonen teaches liposomal encapsulation of tamoxiphen to achieve effective levels of these compounds in cancer therapy. One of ordinary skill in the art would be motivated to combine tamoxiphen with the liposomal compositions of WO since Grunicke teaches combination of ether lipids and tamoxiphen has a synergistic effect.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *G.S. Kishore* whose telephone number is (703) 308-2440.

The examiner can normally be reached on Monday-Thursday from 6:30 A.M. to 4:00 P.M. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T.K. Page, can be reached on (703)308-2927. The fax phone number for this Group is (703)305-3592.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [thurman.page@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)308-1235.

Gollamudi S. Kishore, Ph. D

LS home

Primary Examiner

Group 1600

gsk

March 4, 2003